

Homework #2; Phys 110B; Due Mon 2/13

- 1) Problem 7.17 (same in both editions)
- 2) Problem 7.23 in 4th edition, Problem 7.21 in 3rd edition,. (hint: M is "mutual"!)
- 3) Problem 7.29 in 4th edition Problem 7.27 in 3rd edition,.
- 4) Solve for the self-inductance for the example 7.13 (the one we did in class on Wednesday with the coaxial cable) assuming that the right-going current is spread **evenly** inside the innermost cylinder (same current density everywhere inside the small cylinder). The returning current is still all on the outside.